

DHS Office of Health Affairs

Risk-Informed Biodefense Countermeasure Strategies and Policy-making

International Discussion of Bioterrorism Risk 6-7 October 2009

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VISION

A Nation prepared for the health consequences of catastrophic incidents

MISSION: The Office of Health Affairs serves as the Department of Homeland Security's principal agent for all medical and health matters. Working throughout all levels of government and the private sector, the Office of Health Affairs leads the Department's role in developing and supporting a scientifically rigorous, intelligence-based biodefense and health preparedness architecture to ensure the security of our Nation in the face of all hazards.



OHA's Primary Goals

- · Serve as the principal medical authority for the Department of Homeland Security
- · Lead the Department's biodefense responsibilities
 - End-to-end leadership for implementation of HSPD-9 (Ag/Food Defense) and HSPD-10 (biodefense), including early threat detection and biosurveillance integration
- Lead a coordinated National architecture for Weapons of Mass Destruction (WMD)
 planning and catastrophic incident management
 - Ensure planning and mitigation strategies for biological threats are coordinated across the Interagency
 - Serve as DHS POC for state, local, tribal, and private sector partners for health preparedness
- Ensure DHS employees are supported by effective occupational health and safety programs
 - Standardize and direct a Departmental occupational health and safety program
 - Provide medical oversight for health delivery throughout the Department



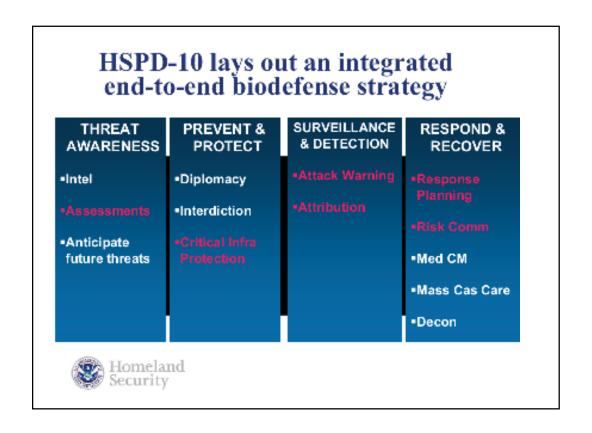
Where do our requirements come from?

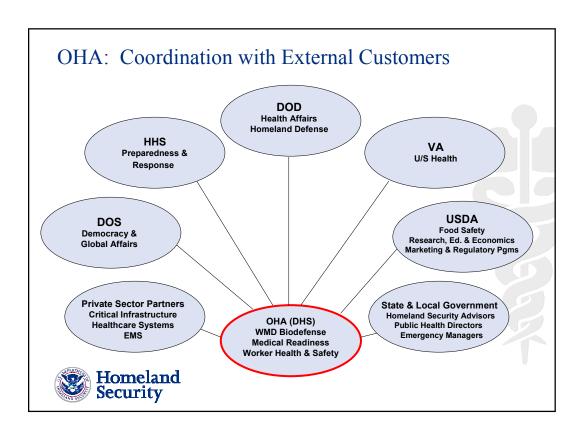
OHA bases its requirements on

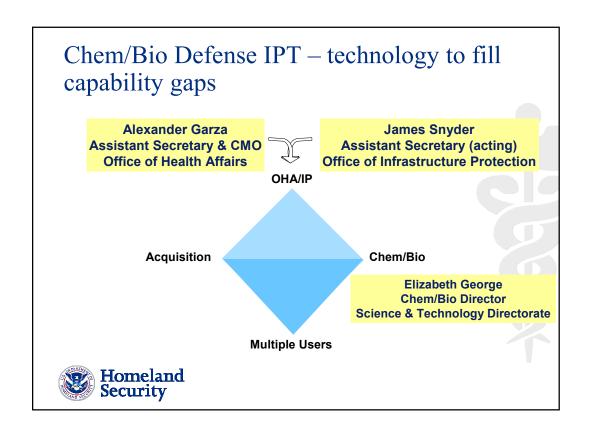
- ➤ Homeland Security Presidential Directives 8, 9, 10, 18, 22
- > Congressional legislation & guidance
- National planning & implementation guidance NIPP, NRP, NIMS, and the National Planning Scenarios
- > Risk, vulnerability and mitigation studies
- > Federal, State, Local, Private inputs

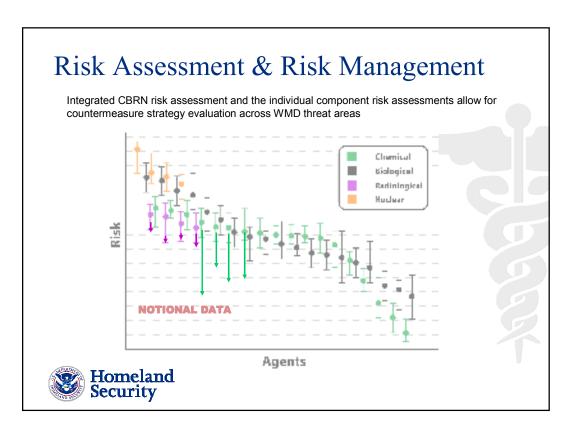












Project BioShield

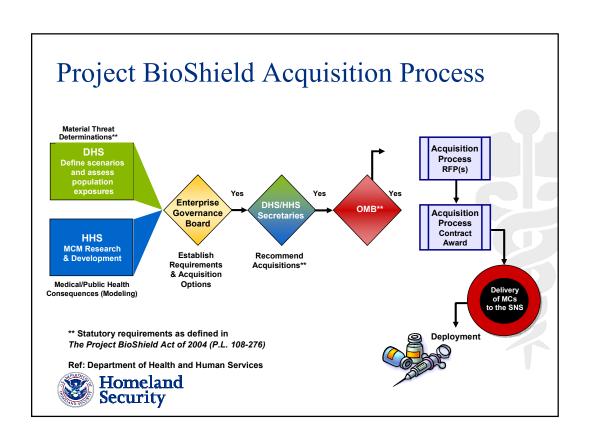
The *Project BioShield Act of 2004* became Public Law 108-276 on 21 July 2004.



PURPOSE

To accelerate the research, development, purchase, and availability of priority medical countermeasures to protect the U.S. population from the effects of chemical, biological, radiological, and nuclear (CBRN) threat agents.





S&T CBD Assessments supporting the MTDs

Bioterrorism Risk Assessment (BTRA):

A quantitative, end-to-end risk assessment that integrates the findings of the intelligence and law enforcement communities with input from the scientific, medical, and public health communities.

· Material (Population) Threat Assessments:

A set of <u>plausible</u>, <u>high consequence</u> scenarios used to estimate the potential number of exposed individuals, their exposure levels, contaminated areas, and other 'collateral effects.'



BioWatch National Network









- Operates continuously in more than 30 major population centers
- Detects attacks against our Nation's cities and other high value assets
- · Poised to:
 - Enable early detection
 - Provide situational understanding to guide response
 - Share information among partners
 - Integrate into the national networks of reference laboratories
 - Serve as critical element in a national capacity to respond rapidly to bioterrorism events



Food, Agriculture, & Veterinary Defense

- DHS is overall incident manager during national incidents
- Links together resources and expertise of USDA, HHS, DOD, state, tribal, and local governments, and the private sector to protect and respond to threats to the Nation's agriculture and food
- Mitigates vulnerabilities in food, agriculture, and water systems
- Develops a robust biological threat awareness capacity





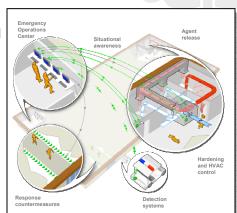
National Biosurveillance Integration System (NBIS) and National Biosurveillance Integration Center (NBIC) **NBIS Mission Statement** NBIS provides a homeland security-Federal NGOs INTERNATIONAL relevant biosurveillance common operating picture that bridges the human disease, food, agriculture, vater, meteorological, environmental SCCs/GCCs surveillance systems and relevant threat and intelligence information USPS domains to provide early cueing to Critical Infrastructure mitigate impacts of bio-events DOI **Homeland Security** SLTT Health Departments DOC NBIC **NBIC Mission** SLTT Fusion Centers NBIC was established IAW PL 110-53 DOT SLTT = State, Local, Tribal, Territorial as the operational hub for the NBIS community. NBIC provides trained analysts and a 24/7 capability to examine worldwide surveillance data DHS across multiple health domains, integrates and assesses real-world bio-events, and provides early cueing Homeland Security and bio-situational awareness to the Secretary, the DHS NOC and other NBIS member agencies.

Chemical Defense Division (CDD)

The vision of CDD is to save lives and limit suffering and illness in the event of a catastrophic chemical event by:

- promoting a national culture of preparedness and synergistic relationships amongst federal, state and local partners (including the public)
- focusing the Nation's vast resources on the critical aspects of a catastrophic chemical event
- integrating all of our nation's chemical defense capabilities both horizontally and vertically in order to develop and effect end to end capabilities.





Biosecurity

- Current U.S. Federal Policy for Biological Select Agents and Toxins (BSAT) determines inclusion of pathogens and toxins based on the potential to pose a severe threat to public, animal, or plant health, or to animal or plant products
- Numerous interagency working groups charged with reviewing the current policy have recommended performing a risk assessment for each select agent and toxin on the BSAT list and considering the development of a stratification scheme that includes biodefense and biosecurity criteria, as well as risks to public health, so that security measures may be implemented based upon risk







